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## **MODEL 5300688**

## 2.0-4.0 GHz 30 WATTS LINEAR POWER RF AMPLIFIER

## Solid State Broadband High Power RF Amplifier

The 5300688 is a 30 Watt broadband amplifier that the 2.0-4.0GHz covers frequency range. This small lightweight amplifier and utilizes Class A/AB linear power devices that provide 3<sup>rd</sup> excellent order an intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR<sub>RF</sub> amplifiers, the 5300688 comes with an extended multiyear warranty.

	<u>Parameter</u>	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2.0-4.0 GHz
2	Saturated Output Power	30 Watts typical
3	Power Output @ 1dB Comp.	25 Watts min
4	Compressed Signal Gain	+10 dB min
5	Gain Flatness	<u>+</u> 2 dB max
6	IP <sub>3</sub>	+53 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc minimum
9	Spurious Signals	< -60 dBc minimum
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	15 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+30 dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	12" x 10" x 1"
17	Weight	8 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
21	Baseplate Temperature	0° C to +50C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

## **Application Notes**

- ♦ Requires drive level of at least 35dBm. Will require drivers model 5303075, and 5300689 for full rated output power with 0 dBm nominal input from signal source
- ♦ Adequate Heatsink Required: Recommend Ophir RF Model HTS00008
- ♦ Adequate Airflow required consult factory for fans
- Heatsink and Fans can be incorporated to this module from Ophir RF. Change part number to 5800688. Consult factory for incorporating drivers to the Heatsink/Fan Assembly



09/09 Approved By: \_\_\_\_\_ Date: \_\_\_\_